

Title (en)
IMPROVED FABRIC ARMOR

Title (de)
VERBESSERTE BESCHUSSSICHERE ANORDNUNG AUS GEWEBE

Title (fr)
STRUCTURE PARE-BALLES AMELIOREE EN TISSU

Publication
EP 1110052 A4 20030528 (EN)

Application
EP 00944580 A 20000309

Priority
• US 0005999 W 20000309
• US 12431599 P 19990312

Abstract (en)
[origin: WO0055565A2] A lightweight, ballistic resistant fabric armor constructed of multiple layers of high performance fiber woven fabric arranged in a quasi-isotropic orientation. The fabric armor is used in ballistic resistant garments to cover and protect vital portions of the human body. Used in a garment, the fabric armor is of minimal areal density and bulk while providing flexibility, freedom of movement, ventilation, and an inconspicuous appearance. The fabric armor meets many different global ballistic standards (e.g., the ballistic performance requirements of the National Institutes of Justice Standard), with the number of woven fabric layers determined by the level of protection desired.
[origin: WO0055565A2] A lightweight, ballistic resistant fabric armor constructed of multiple layers (38, 39) of high performance fiber woven fabric (38, 39) arranged in a quasi-isotropic orientation. The fabric armor is used in ballistic resistant garments to cover and protect vital portions of the human body. Used in a garment, the fabric armor is of minimal areal density and bulk while providing flexibility, freedom of movement, ventilation, and an inconspicuous appearance. The fabric armor meets many different global ballistic standards, with the number of woven fabric layers (38, 39) determined by the level of protection desired.

IPC 1-7
F41H 1/02; F41H 5/04

IPC 8 full level
F41H 5/04 (2006.01)

CPC (source: EP US)
F41H 5/0485 (2013.01 - EP US)

Citation (search report)
• [XP] EP 0967071 A1 19991229 - LUJAN DARDO BONAPARTE [AR]
• [E] WO 0042246 A1 20000720 - AKZO NOBEL NV [NL], et al
• [XY] GB 2235929 A 19910320 - ICI PLC [GB]
• [Y] US 5619748 A 19970415 - NELSON JEFF S [US], et al
• [A] US 5479659 A 19960102 - BACHNER JR THOMAS E [US]
• See references of WO 0055565A2

Cited by
DE102009051436A1; WO2011050906A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 0055565 A2 20000921; WO 0055565 A3 20010405; WO 0055565 A8 20011011; WO 0055565 A9 20011129; AU 5865800 A 20001004; CA 2331792 A1 20000921; CA 2331792 C 20090113; CA 2647155 A1 20000921; CA 2647155 C 20100504; DE 60036068 D1 20071004; DE 60036068 T2 20080521; EP 1110052 A2 20010627; EP 1110052 A4 20030528; EP 1110052 B1 20070822; ES 2292447 T3 20080316; US 6526862 B1 20030304

DOCDB simple family (application)
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